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Jiangxi KMAX Industrial Co., Ltd.	V2.0	High	27

Fun2 Electrical and Electronic Technology VR Instruction V2.0 User and Customer Service Manual

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Contents

1.	Introdu	uction	1
	1.1	Purpose	1
	1.2	Context	1
	1.3	Definition	1
	1.4	Reference	1
2	Feature	es	1
	2.1	Function	1
	2.2	Performance	2
3	Operat	tion Environment	2
	3.1	Hardware Requirements	2
	3.2	Software Requirements	2
4	Getting	g Started	2
	4.1	Installation	2
	4.2	How to Interact	3
5	Tananki	lack a at Duak laws	99

1. Introduction

1.1 Purpose

This guide is intended to help readers learn how to use this software.

1.2 Context

This software is proposed and developed all by Jiangxi KMAX Industrial Co., Ltd.

1.3 Definition

Term	Definition	
zSpace	zSpace refers to zSpace all-in-one computers and	
	laptops with AR and VR capabilities developed by	
	zSpace,Inc.	
VR	Virtual reality technology	

1.4 Reference

Basic Electrician by Machinery Industry Press

Electrical and Electronic Technology by Publishing House of Electronics Industry

2 Features

2.1 Function

The electrical and electronic technology software is based on Basic Electrician and Electrical and electronic technology as the theoretical framework of the basics, and through the combination of text and VR models, animations, and interactions, it demonstrates concepts and principles that are not easy for students to understand. The software is based on the requirements of electrical basic teaching courses, and teachers can select resources to use according to their needs.

2.2 Performance

This software can run continuously and stably for 12 hours without any failure.

3 Operation Environment

3.1 Hardware Requirements

zSpace laptops, zSpace300 and other zSpace products with higher specifications. Performance parameters:

Specifications of zSpace300				
Display	24" HD Display (1920x1080) with zSpace head tracked stereo			
Display	display technology			
Processor	Intel i3			
Memory	8 GB DDR4 RAM			
Graphics	Radeon Pro WX3100 Embedded GPU			
Peripherals	zSpace Stylus, zSpace Eyewear (Passive Stereo glasses			
	and 2D conversion glasses), Keyboard and Mouse			

3.2 Software Requirements

This software runs on zSpace all-in-one computers and laptops with Windows 10 operating system.

4 Getting Started

4.1 Installation

4.1.1 Client Deployment

Double-click the executable file, and install it by following prompt steps.

4.1.2 Product Registration

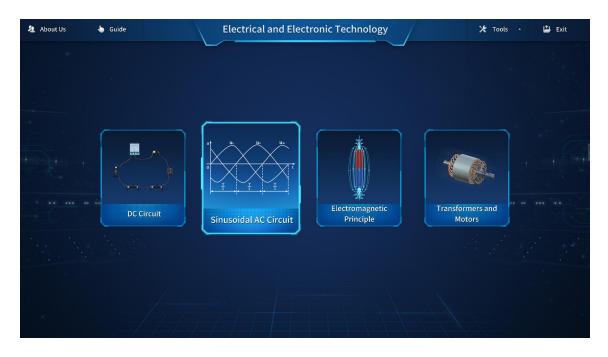


After the software is started and a registration window pops up, please enter an activation code issued by Jiangxi KMAX Industrial Co., Ltd. into the product key blank. Click the activation button to activate and use this software.

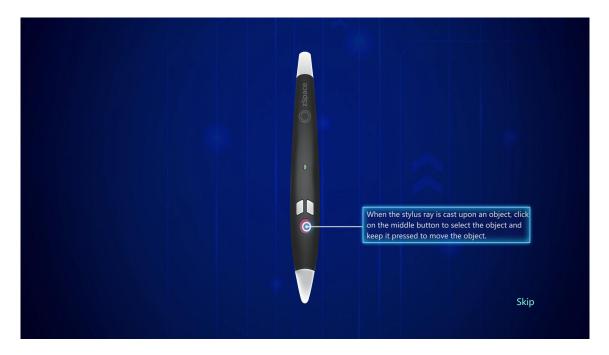
4.2 How to Interact

4.2.1 Home Page

Click the desktop icon of this software to enter the home page. On the top are the icons for About Us, Guide, Tools and Exit.



Click the guide button to view the guide introducing the basic operation of the ray pen.



Click the tool button to pop up a drop-down menu. click the zView button to activate zView function, click the 3D TV button to connect with a 3D TV, and click the Settings button to set language, vibration of stylus pen and pupillary distance and check license information.

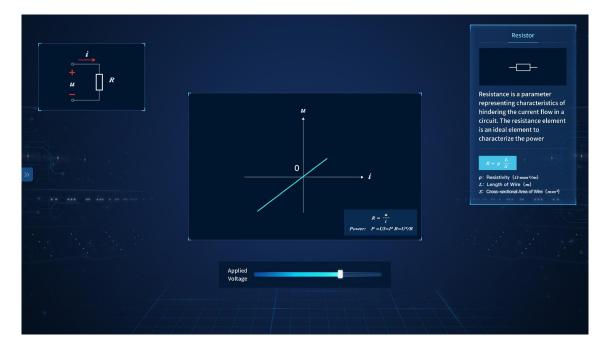


4.2.2 Enter Modules

Click the corresponding module button on the first interface to enter the module interface. The left is the classification menu; the middle is the model animation area; the upper right is the knowledge point text area; the lower middle is the operation button. Click the left menu back button to return to the first interface.

DC circuit module

(1) Drag the progress bar by pressing the middle button of the stylus ray pen.



(2) Enter the resistance and precision, and click submit.





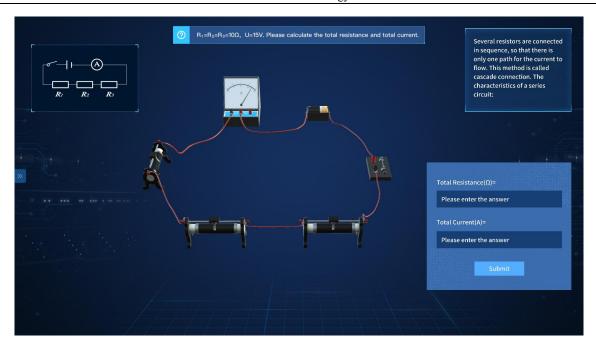
(3) According to the form on the left, fill in the number of rings, resistance value and precision value, and click submit.

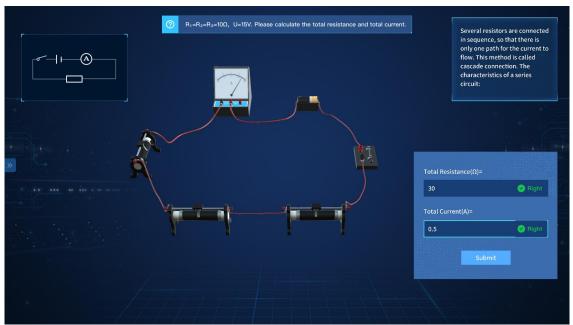




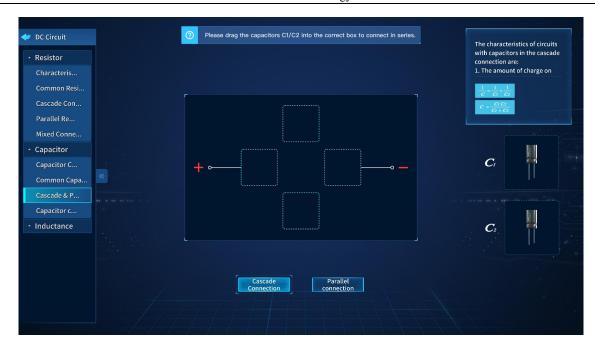
(4) Click the ports on both ends of components to connect first, then close the switch, and finally fill in the total resistance and total current to submit.



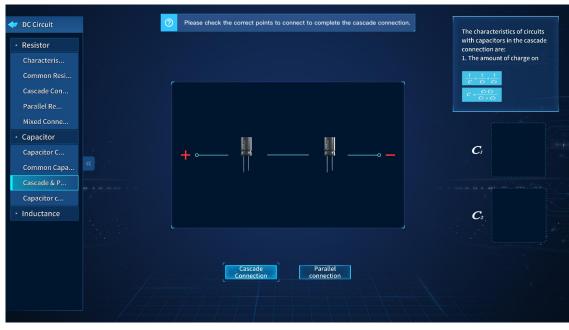




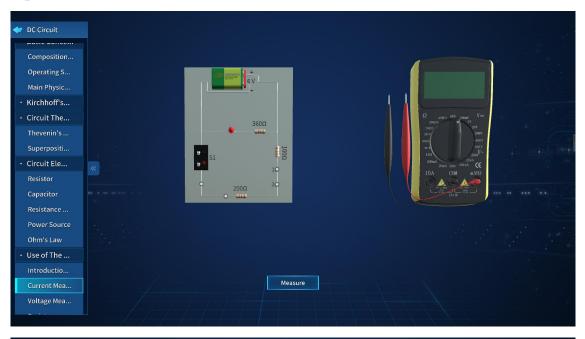
(5) First drag the component from the inventory on the right to the dotted box, and then click the checked box to connect.



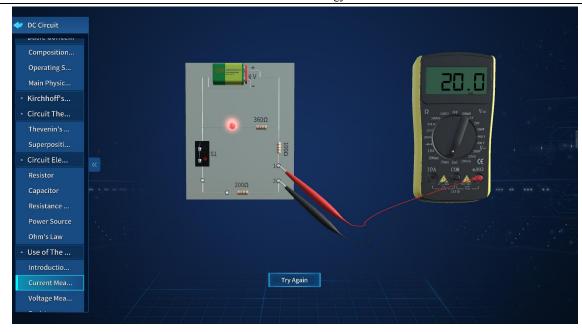




(6) Click Measure, drag the red and black test pens of the multimeter to the end pins of the part to be measured, and click Reset to re-measure.





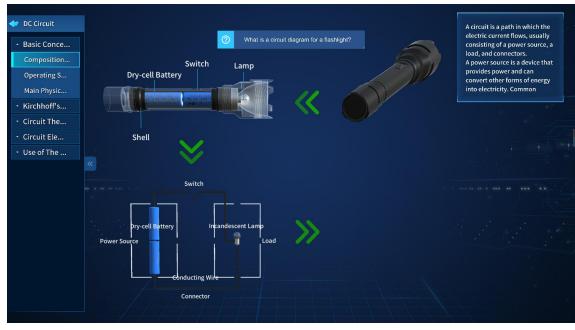


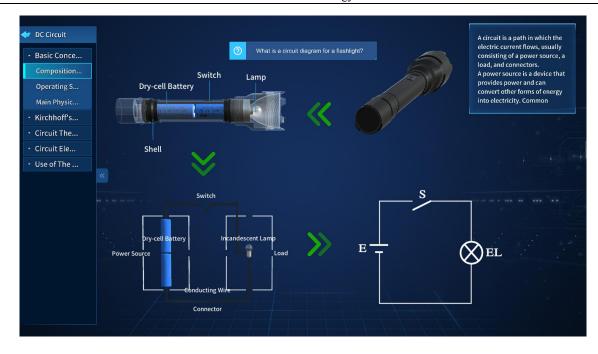
(7) Operate according to the text description and the instruction arrow.



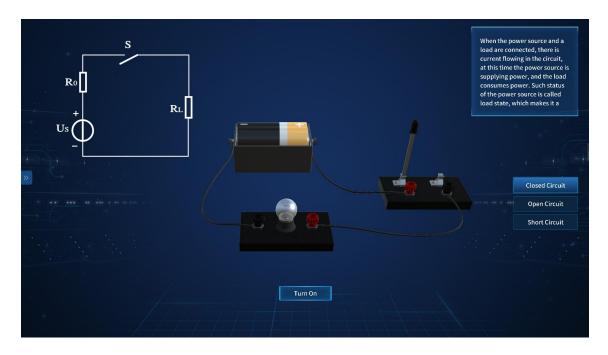


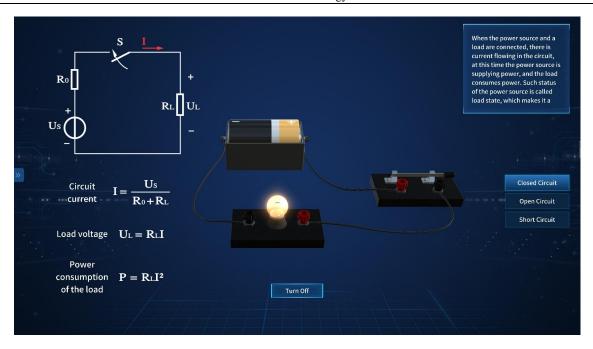




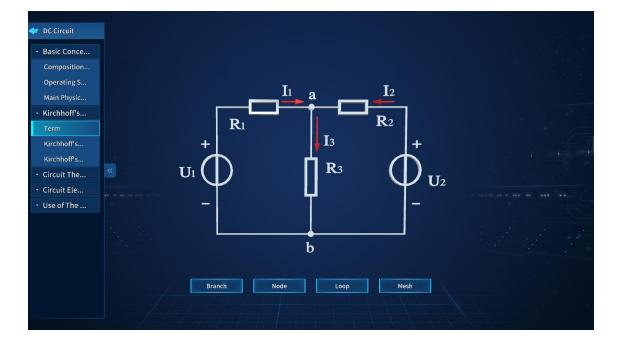


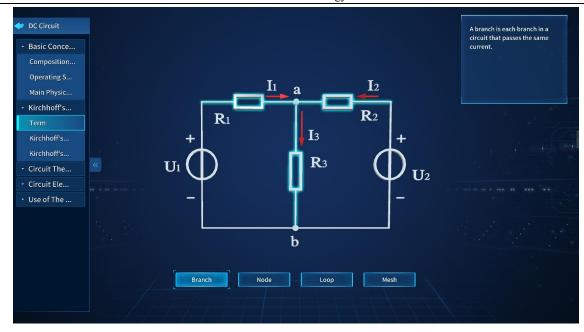
(8) Click the button to control the on-off of the circuit.



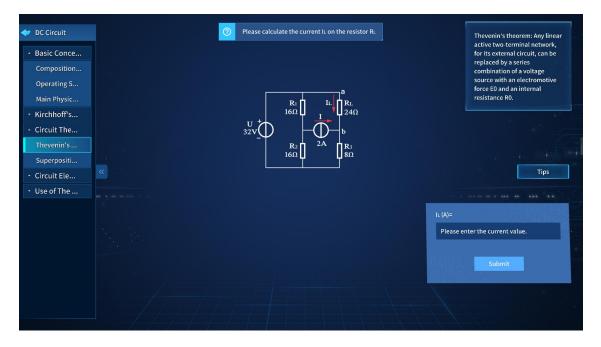


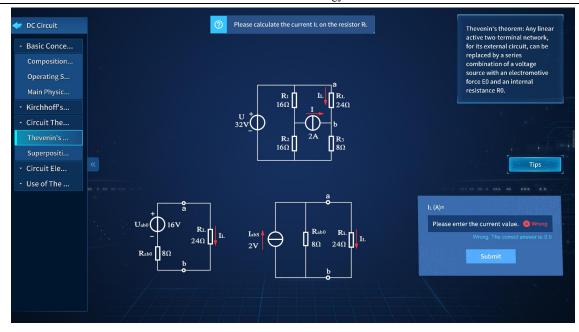
(9) Click the button, the relevant part will be highlighted and flashed.



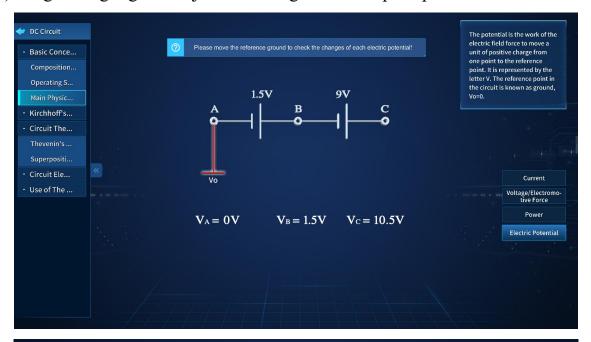


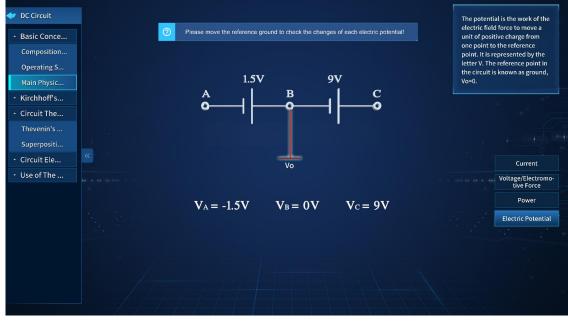
(10) Calculate according to the text prompt, you can click the prompt to assist the calculation.





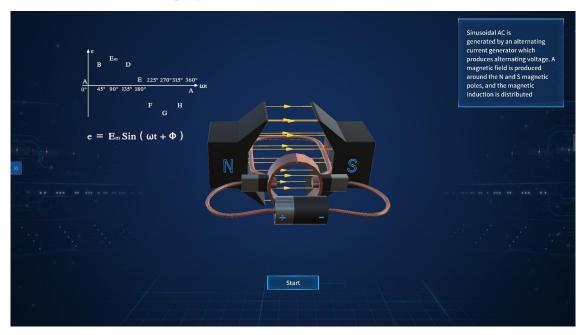
(11) Drag the highlighted object according to the text prompt.

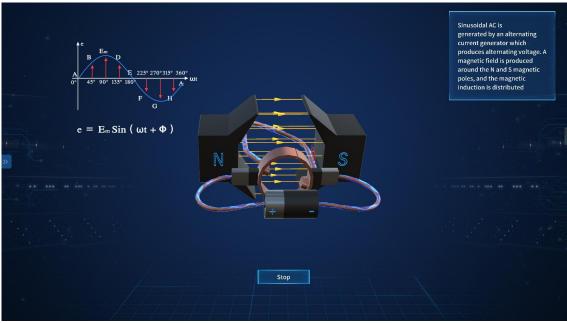




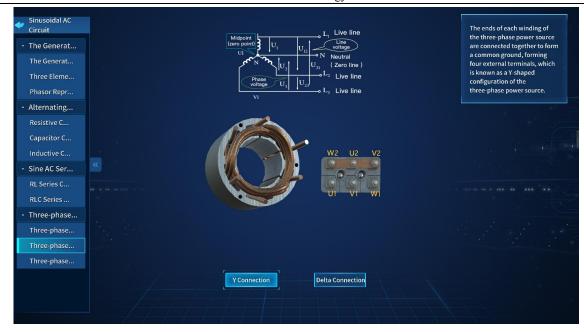
Sinusoidal AC circuit module

(12) Click on the UI to display the content.



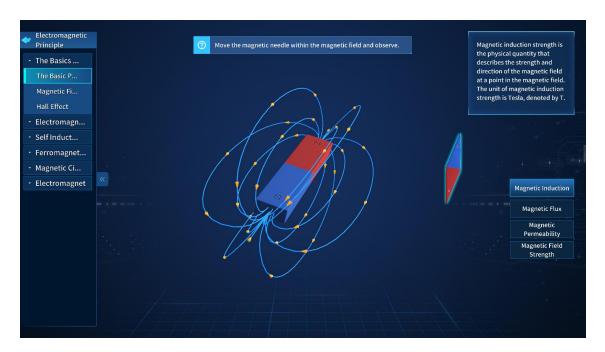


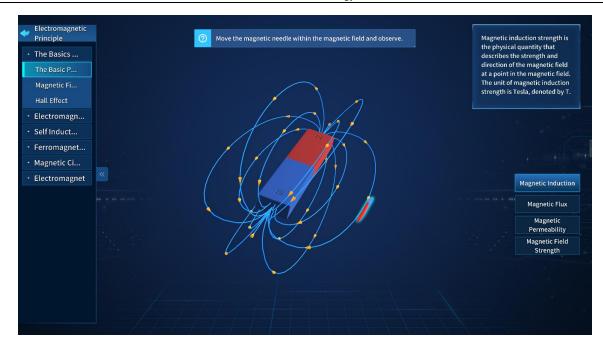
(13) Click on the UI to play the content animation.



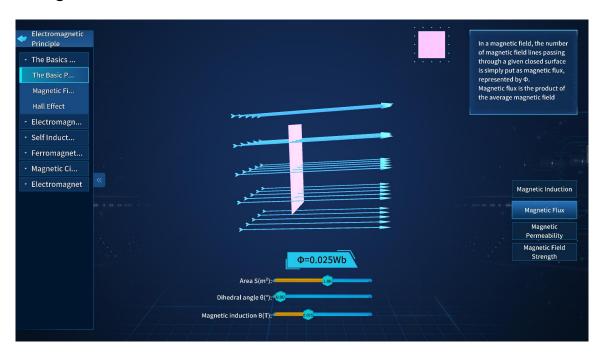
Electromagnetic principle module

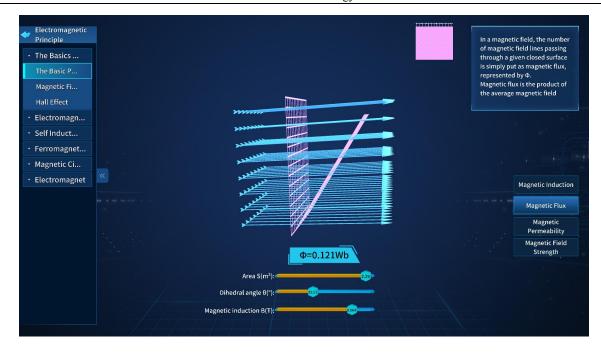
(14) Drag the highlighted object to the target position according to the text prompt, you can drag multiple times.



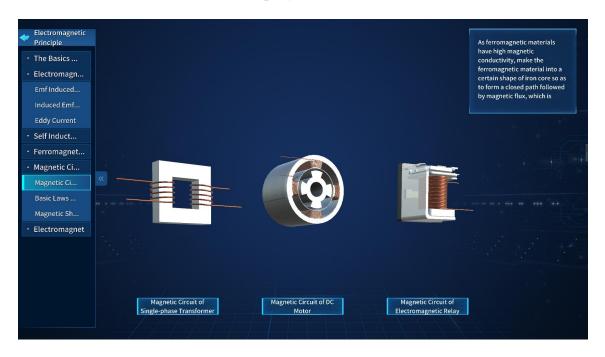


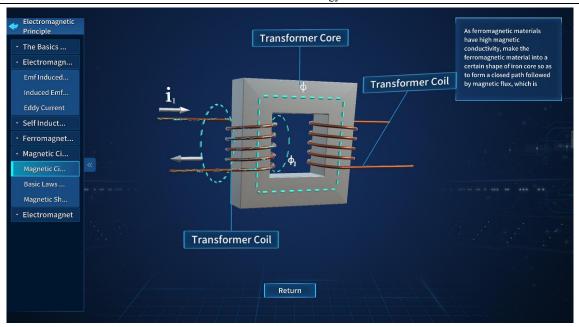
(15) Drag the value bar of the parameter, the corresponding parameter of the model will change.





(16) Click the button to zoom in and play the animation.





Transformer and motor module

(17) A label appears near the blue ball, with a corresponding explanation in the upper right corner.



(18) Click to explode, the model will explode into multiple parts, the ray pen is close to a single part, and the name of the part is displayed. You can drag the parts individually, and click to move as a whole to drag the model as a whole.









5 Troubleshoot Problems

Problem1: zSpace stylus ray cast may divert in use. It can be fixed by moving the stylus pen close to the screen.

Problem2: When an object is moved wherever out of sight and cannot be interacted with, click the left stylus button to restore the placement of objects.

Problem3: This software can work only after it is registered. So please contact the research center of Jiangxi KMAX Industrial Co., Ltd. to acquire a activation code.

Problem 4: When connected to a second display, if the software screen is not displaying in full screen view, do as follows: turn off the software, right-click the mouse on the desktop to enter the Display settings, and in the Multiple Displays section, select Extend. Designate zSpace the primary monitor and restart the software.